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Public Service Commission

January 3, 2003

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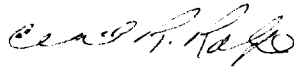
Mr. Scot Cullen, Chief Electric Engineer
Public Service Commission
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and
Maintenance, PSC Rule 113.0607(6)

Dear Mr. Cullen:

Enclosed for filing are 3 copies of BANGOR MUNICIPAL UTILITY's report to the
commission, submitted every two years, showing compliance with its Preventative Maintenance
Plan.

Very truly yours,



Cecil R. Rolfe
Director of Public Works

Enclosures

TWO YEAR REPORT DOCUMENTING COMPLIANCE WITH THE PREVENTATIVE MAINTENANCE PLAN

BANGOR MUNICIPAL UTILITY

**FILING DEADLINE
FEBRUARY 1, 2003**

January 3, 2003

Cecil Rolfe

106 15th Ave, PO Box 130

Bangor WI 54614

(608) 486-2151

Bangormuni@aol.com

This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

I Reporting Requirements: PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

II Inspection Schedule and Methods:

SCHEDULE:	MONTHLY	ANNUAL	EVERY 5 YEARS
Transmission (NONE)			
Substations	X	X	
Distribution (OH & UG)			X

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. RFI - Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
3. SI – structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 5 year cycle such that the entire system will be inspected every 5 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

III Condition Rating Criteria

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies .

- 0) Good condition
- 1) Good condition but aging
- 2) Non-critical maintenance required – normally repair within 12 months
- 3) Priority maintenance required – normally repair within 90 days
- 4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week

IV Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

VII Inspected Circuits and Facilities

Circuit # and description	Substation
Burns 3 Phase	Bangor
Dutch Creek 3 Phase	"
Webster 3 Phase	"
Fish Creek 1 Phase	"
Kale Ave. 1 Phase	"
Hwy 16 East 1 Phase	"

Emergency generation is test run and maintained every *week* to confirm its operational readiness.

VIII Scheduling Goals Established and Success of Meeting the Criteria:

It was this utility's goal to complete all monthly substation inspections, and to inspect 20% of the distribution system annually. In addition, we expected to complete all scheduled maintenance resulting from the inspections within the prescribed time periods specified in the rating criteria.

All of the inspection goals were met or exceeded. 25% of the distribution system was inspected rather than 20%. 1 urgent maintenance item was

found and completed the same day. Of the 5 priority and non critical maintenance items found, all were repaired on time

IX Facility condition – rating criteria:

During the past year, 25% of the distribution system was inspected and all substation inspections were completed on time. Of the items found requiring maintenance, all were repaired before they were responsible for an outage to customers. Storm related outages have been minimal and equipment failure only accounted for 1 outage affecting 20 residential customers. Most of the system is less than 10 years old and is in excellent condition. Of 260 miles of line about, only 3 miles of copperweld are left. None of it is distribution mainline, only individual taps. All copperweld is intended to be replaced in 3 years. No farms are served by anything smaller than #2 ACSR.